

CLAIMS

1. A method for choosing a channel coding and/or interleaving scheme to be applied in a communication connection over a radio interface between a terminal and a base station of a cellular packet radio system where a certain decision-making device allocates channel coding and/or interleaving schemes to communication connections, comprising the steps of:
- communicating a request message to the decision-making device, said request message indicating a certain set of Quality of Service parameters associated with a certain first communication connection,
 - mapping said set of Quality of Service parameters to a certain first channel coding and/or interleaving scheme as a part of the channel coding and/or interleaving scheme allocation made by the decision-making device and
 - communicating said first channel coding and/or interleaving scheme to the base station and the terminal for them to apply said first channel coding and/or interleaving scheme in said first communication connection.
2. A method according to claim 1, wherein
- the step of communicating a request message to the decision-making device comprises the mutually alternative substeps of
 - a1) indicating, within said set of Quality of Service parameters, high service precedence, short mean delay and short maximum delay when the request message concerns a certain communication connection for transmitting real-time speech and/or real-time video image, or
 - a2) indicating, within said set of Quality of Service parameters, low service precedence, long mean delay and long maximum delay when the request message concerns a certain communication connection for transmitting non-real time data;
- and
- the step of mapping said set of Quality of Service parameters to a certain first channel coding and/or interleaving scheme comprises the mutually alternative substeps of
 - b1) mapping a set of Quality of Service parameters indicating high service precedence, short mean delay and short maximum delay into a channel coding scheme with no retransmissions and a long interleaving length, or
 - b2) mapping a set of Quality of Service parameters indicating low service precedence, long mean delay and long maximum delay into a channel coding scheme with retransmissions and a short interleaving length.

3. A method according to claim 2, wherein step b1) further comprises the feature of mapping said set of Quality of Service parameters indicating high service precedence, short mean delay and short maximum delay into a channel coding scheme which is optimized for speech.

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4. A method according to claim 1, wherein the step of communicating a request message to the decision-making device is executed as a response to an observed need for setting up a new radio bearer between the terminal and the base station.

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5. A method according to claim 1, wherein the step of communicating a request message to the decision-making device is executed as a response to an observed need for changing the characteristics of an existing radio bearer between the terminal and the base station.

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6. An arrangement for choosing a channel coding and/or interleaving scheme to be applied in a communication connection over a radio interface, comprising:

- a terminal, a base station and a radio interface between them,
- a certain decision-making device for allocating channel coding and/or interleaving schemes to communication connections,

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- within the terminal and the base station, means for communicating a request message to the decision-making device, and means for indicating within said request message a certain set of Quality of Service parameters associated with a certain first communication connection,

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- within the decision making device, means for mapping said set of Quality of Service parameters to a certain first channel coding and/or interleaving scheme as a part of the channel coding and/or interleaving scheme allocation and

- means for communicating said first channel coding and/or interleaving scheme to the base station and the terminal for them to apply said first channel coding and/or interleaving scheme in said first communication connection.